

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	4	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS	5	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	6	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	7	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	8	FEB 10	COMPENDEX reloaded and enhanced
NEWS	9	FEB 11	WTEXTILES reloaded and enhanced
NEWS	10	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS	11	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	12	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	13	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	14	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	15	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	16	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	17	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	18	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS	19	MAR 11	ESBIOBASE reloaded and enhanced
NEWS	20	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS	21	MAR 23	CA/CAPLUS enhanced with more than 250,000 patent equivalents from China
NEWS	22	MAR 30	IMSPATENTS reloaded and enhanced
NEWS	23	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	24	APR 07	STN is raising the limits on saved answers
NEWS EXPRESS	JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:44:55 ON 22 APR 2009

=> file casreact
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FILE 'CASREACT' ENTERED AT 13:45:33 ON 22 APR 2009
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FILE CONTENT:1840 - 19 Apr 2009 VOL 150 ISS 17

New CAS Information Use Policies, enter HELP USAGETERMS for details.

* CASREACT now has more than 16.5 million reactions *
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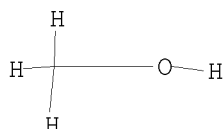
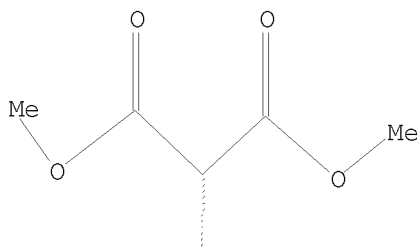
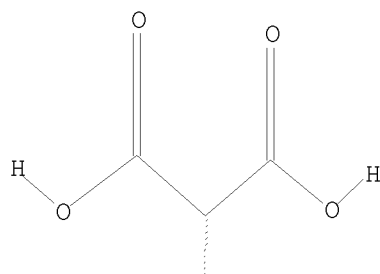
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=>
Uploading C:\Program Files\Stnexp\Queries\10577374-2.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:46:28 FILE 'CASREACT'

SCREENING COMPLETE - 52 REACTIONS TO VERIFY FROM 16 DOCUMENTS

100.0% DONE 52 VERIFIED 0 HIT RXNS 0 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED VERIFICATIONS: 608 TO 1472

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 full

FULL SEARCH INITIATED 13:46:32 FILE 'CASREACT'

SCREENING COMPLETE - 2153 REACTIONS TO VERIFY FROM 295 DOCUMENTS

100.0% DONE 2153 VERIFIED 3 HIT RXNS 2 DOCS

SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1 (3 REACTIONS)

=> d l3 ibib abs hit 1-

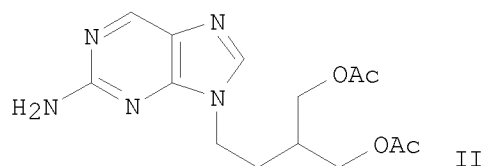
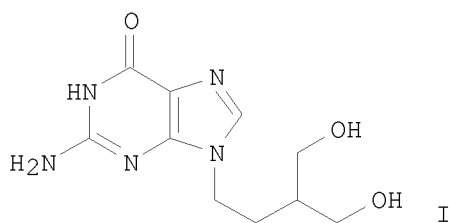
YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 2 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 146:402223 CASREACT

TITLE: Improved industrial syntheses of penciclovir and famciclovir using N2-acetyl-7-benzylguanine and a cyclic side chain precursor

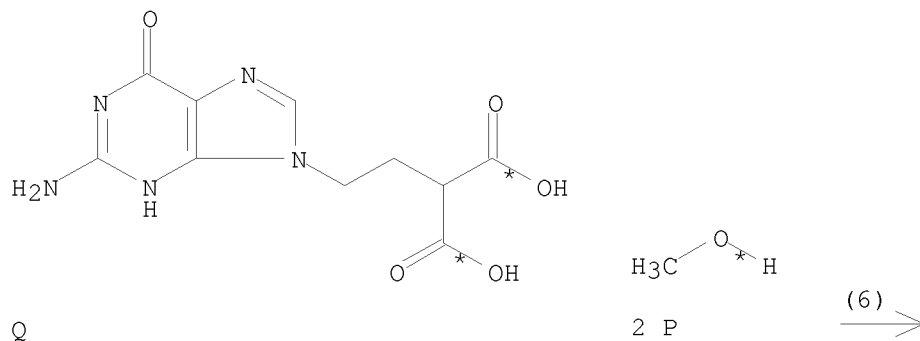
AUTHOR(S): Torii, Takayoshi; Yamashita, Keizo; Kojima, Mitsuhiko;
Suzuki, Yumiko; Hijiya, Toyoto; Izawa, Kunisuke
CORPORATE SOURCE: AminoScience Laboratories, Ajinomoto Co., Inc.,
Kawasaki-ku, Kawasaki, Japan
SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2006),
25(4-6), 625-634
CODEN: NNNAFY; ISSN: 1525-7770
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

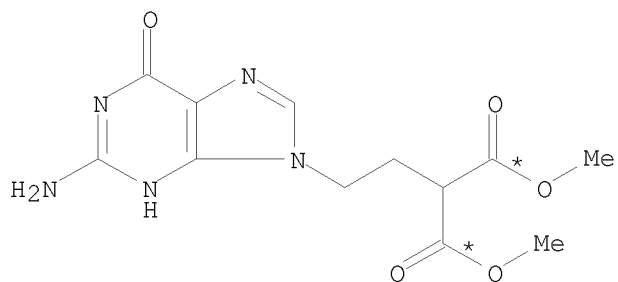


AB A practical synthetic methods for penciclovir (PCV) I and famciclovir (FCV) II via regioselective coupling reaction of N2-acetyl-7-benzylguanine (NAc7BnG) and 6,6-dimethyl-5,7-dioxaspiro[2.5]octane-4,8-dione, followed by debenzylation, is described.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RX(6) OF 24 ...Q + 2 P ==> A...





A
YIELD 95%

RX(6)

STAGE(1)

RGT T 7719-09-7 SOCl₂

SOL 67-56-1 MeOH

CON SUBSTAGE(1) 0 deg C

SUBSTAGE(2) 0 deg C -> room temperature

STAGE(2)

RCT Q 234110-22-6, P 67-56-1

CON SUBSTAGE(1) 3.5 hours, 40 deg C

SUBSTAGE(2) 22.5 hours, 45 deg C

SUBSTAGE(3) cooled

STAGE(3)

RGT N 1310-73-2 NaOH

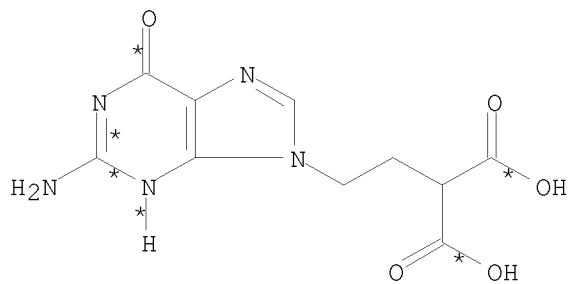
SOL 7732-18-5 Water

CON cooled, neutralized

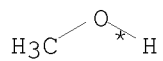
PRO A 234110-23-7

RX(14) OF 24 COMPOSED OF RX(6), RX(7)

RX(14) Q + 2 P ==> U

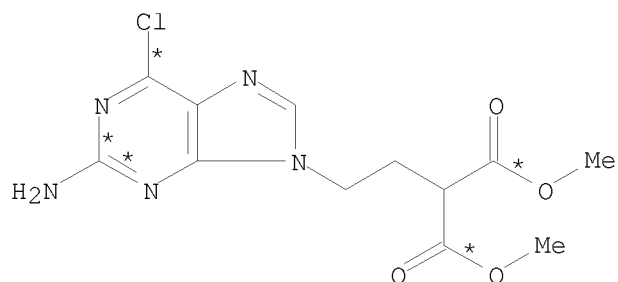


Q



2 P

2
STEPS
→



U
YIELD 70%

RX(6)

STAGE(1)

RGT T 7719-09-7 SOCl₂
SOL 67-56-1 MeOH
CON SUBSTAGE(1) 0 deg C
SUBSTAGE(2) 0 deg C -> room temperature

STAGE(2)

RCT Q 234110-22-6, P 67-56-1
CON SUBSTAGE(1) 3.5 hours, 40 deg C
SUBSTAGE(2) 22.5 hours, 45 deg C
SUBSTAGE(3) cooled

STAGE(3)

RGT N 1310-73-2 NaOH
SOL 7732-18-5 Water
CON cooled, neutralized

PRO A 234110-23-7

RX(7)

RCT A 234110-23-7

STAGE(1)

RGT V 56-34-8 Et₄N Cl, W 10025-87-3 POCl₃, X 121-69-7 PhNMe₂
SOL 75-05-8 MeCN
CON SUBSTAGE(1) 1 hour, 80 deg C
SUBSTAGE(2) 80 deg C -> 0 deg C

STAGE(2)

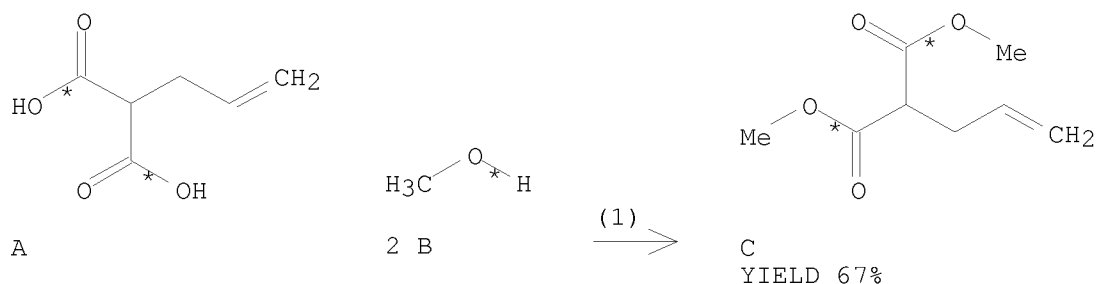
RGT N 1310-73-2 NaOH
SOL 7732-18-5 Water
CON 0 deg C

PRO U 172529-93-0

L3 ANSWER 2 OF 2 CASREACT COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 43:13117 CASREACT
TITLE: Physical properties and chemical constitution. XVI.
Ethylenic compounds
AUTHOR(S): Jeffery, Geo. H.; Vogel, Arthur I.
SOURCE: Journal of the Chemical Society (1948) 658-73
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB New measurements are presented of the parachors and refractivities at

20° for esters of vinylacetic, hendecenoic, and allylmalonic acid, for unsatd. aliphatic hydrocarbons, and for allyl esters of aliphatic monobasic acids and of succinic acid. Data for the following addnl. esters were included in the study: H, Me, Et, Pr, Bu, Am vinylacetates; Me, Et, Pr, Bu hendecenoates; Me, Et, Pr, Bu allylmalonates; AcOC3H5, EtCO2C3H5, PrCO2C3H5, (CH2CO2C3H5)2; di-Me, di-Et, di-Pr, di-Bu, di-Am, diiso-Am (cis-trans) maleates; di-Et, di-Pr, di-Bu, diiso-Bu, di-Am, di-iso-Am (cis-trans) fumarates; di-Me, di-Et, di-Pr (cis-trans) citraconates; (cis-trans) di-Me, di-Et, di-Pr mesaconates; Me, Et, Pr, Bu, Am, iso-Am (trans) crotonates; and Et, Pr, Bu cinnamates. Likewise the following unsatd. hydrocarbons: C5H10, C6H12, C8H16, C10H20, C12H24, C14H28, C16H30. The contributions of the C:C was computed from the general relationship $\bar{\nu} = CR1R2:CR3R4 + 2H \rightarrow CHR1R2CHR3R4$, employing the values for 2H from part IX (cf. C.A. 40, 3390.6) and the appropriate saturated compds. found in previous papers of this series. These lead to the following mean values: P 19.9, RC 1.545, RD 1.575, RF 1.672, RG' 1.720, Mn20D -6.07. These consts. differ considerably from those previously accepted. The measurements made upon alkyl maleates, fumarates, citraconates, mesaconates, methylsuccinates, trans-crotonates, and cinnamates were generally higher than the above mean values because of conjugation. While the parachor contributions appeared to be fairly constant, the cis isomers gave lower values for the refractivities than the corresponding trans isomers.

RX(1) OF 1 A + 2 B ==> C



RX(1) RCT A 2583-25-7, B 67-56-1
 PRO C 40637-56-7
 SOL 71-43-2 Benzene, 7664-93-9 H2SO4
 NTE Classification: Esterification; Alkoxylation; # Conditions:
 MeOH; benzene H2SO4; Rf 21h; # Comments: numerous examples